ENTERED

RAW SEQUENCE LISTING   DATE: 01/21/2004
PATENT APPLICATION: US/10/671,207   TIME: 12:30:57

        Input Set : N:\Crf3\RULE60\10671207.RAW.txt
        Output Set: N:\CRF4\01212004\J671207.raw

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 1 <110> APPLICANT: O'Donnell, Michael E.
 2        Yuzhakov, Alexander
 3        Yurieva, Olga
 4        Jeruzalmi, David
 5        Bruck, Irina
 6        Kuriyan, John
 7 <120> TITLE OF INVENTION: ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT
 8        FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND
 9        USE THEREOF
10 <130> FILE REFERENCE: 22221/1030
11 <140> CURRENT APPLICATION NUMBER: 10/671,207
12 <141> CURRENT FILING DATE: 2003-09-25
13 <150> PRIOR APPLICATION NUMBER: US/09/716,964
14 <151> PRIOR FILING DATE: 2000-11-21
15 <150> PRIOR APPLICATION NUMBER: 60/143,202
16 <151> PRIOR FILING DATE: 1997-04-08
17 <150> PRIOR APPLICATION NUMBER: 08/823,407
18 <151> PRIOR FILING DATE: 1997-04-08
19 <150> PRIOR APPLICATION NUMBER: 09/057,416
20 <151> PRIOR FILING DATE: 1998-04-08
21 <160> NUMBER OF SEQ ID NOS: 212
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2007
26 <212> TYPE: DNA
27 <213> ORGANISM: Thermus thermophilus
28 <400> SEQUENCE: 1
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30        gccacctcct ccagggggc caaggcgtgc aaggagagga acgtccgcac cacgccctat 120
31        actagccttg tgagcgccct ctaccgccgc ttccgccccc tcaccttcca ggaggtggtg 180
32        gggcaggagc acgtgaagga gcccctcctc aaggccatcc gggaggggag gctcgcccag 240
33        gcctacctct tctccgggcc caggggcgtg ggcaagacca ccacggcgag gctcctcgcc 300
34        atggcggtgg ggtgccaggg ggaagacccc ccttgcgggg tctgcccccca ctgccaggcg 360
35        gtgcagaggg cgcccacccc ggacgtggtg gacattgacg ccgccagcaa caactccgtg 420
36        gaggacgtgc gggagctgag ggaaaggatc cacctcgccc ccctctctgc ccccaggaag 480
37        gtcttcatcc tggacgaggc ccacatgctc tccaaaagcg ccttcaacgc cctcctcaag 540
38        accctggagg agcccccgcc ccacgtcctc ttcgtcttcg ccaccaccga gcccgagagg 600
39        atgcccccca ccatcctctc ccgcacccag cacttccgct tccgccgcct cacggaggag 660
40        gagatcgcct ttaagctccg gcgcatcctg gaggccgtgg ggcgggaggc ggaggaggag 720
41        gccctcctcc tcctcgcccg cctggcggac ggggccctta gggacgcgga aagcctcctg 780
42        gagcgcttcc tcctcctgga aggccccctc acccggaagg aggtggagcg cgccctaggc 840
43        tccccccccag ggaccggggt ggccgagatc gccgcctccc tcgcgagggg gaaaacggcg 900
44        gaggccctgg gcctcgcccg gcgcctctac ggggaagggt acgccccgag gagcctggtc 960
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46        ccccttcccg ccccgcccca ggccctgatc gccgccatga ccgccctgga cgaggccatg 1080
47        gagcgcctcg cccgccgctc cgacgcctta agcctggagg tggccctcct ggaggcggga 1140
48        agggccctgg ccgccgaggc cctaccccag cccacgggcg ctccttcccc agaggtcggc 1200
49        cccaagccgg aaagcccccc gaccccggaa cccccaaggc ccgaggaggc gcccgacctg 1260
50        cgggagcggt ggcgggcctt cctcgaggcc ctcaggccca ccctacgggc cttcgtgcgg 1320
51        gaggcccgcc cggaggtccg ggaaggccag ctctgcctcg ctttccccga ggacaaggcc 1380
52        ttccactacc gcaaggcctc ggaacagaag gtgaggctcc tcccccctggc ccagcccat 1440
53        ttcggggtgg aggaggtcgt cctcgtcctg gagggagaaa aaaaagcct gagcccaagg 1500
54        ccccgcccgg ccccacctcc tgaagcgccc gcacccccgg gccctcccga ggaggaggta 1560
55        gaggcggagg aagcggcgga ggaggccccg gaggaggcct tgaggcgggt ggtccgcctc 1620
56        ctgggggggc gggtgctctg ggtgcggcgg cccaggaccc gggaggcgcc ggaggaggaa 1680
57        cccctgagcc aagacgagat aggggggtact ggtatataat gggggcatga cgcggaccac 1740
58        cgacctcgga caagagaccg tggacaacat cctcaagcgc ctccgccgta ttgagggcca 1800
59        ggtgcggggg ctccagaaga tggtggccga gggccgcccc tgcgacgagg tcctcaccca 1860
60        gatgaccgcc accaagaagg ccatggaggc ggcggccacc ctgatcctcc acgagttcct 1920
61        gaacgtctgc gccgccgagg tctccgaggg caaggtgaac cccaagaagc ccgaggagat 1980
62        cgccaccatg ctgaagaact tcatcta                                        2007
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65 <211> LENGTH: 529
66 <212> TYPE: PRT
67 <213> ORGANISM: Thermus thermophilus
68 <400> SEQUENCE: 2
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71        Val Gly Gln Glu His Val Lys Glu Pro Leu Leu Lys Ala Ile Arg Glu
72                       20                  25                  30
73        Gly Arg Leu Ala Gln Ala Tyr Leu Phe Ser Gly Pro Arg Gly Val Gly
74                   35                  40                  45
75        Lys Thr Thr Thr Ala Arg Leu Leu Ala Met Ala Val Gly Cys Gln Gly
76               50                  55                  60
77        Glu Asp Pro Pro Cys Gly Val Cys Pro His Cys Gln Ala Val Gln Arg
78         65                  70                  75                  80
79        Gly Ala His Pro Asp Val Val Asp Ile Asp Ala Ala Ser Asn Asn Ser
80                       85                  90                  95
81        Val Glu Asp Val Arg Glu Leu Arg Glu Arg Ile His Leu Ala Pro Leu
82                       100                 105                 110
83        Ser Ala Pro Arg Lys Val Phe Ile Leu Asp Glu Ala His Met Leu Ser
84                   115                 120                 125
85        Lys Ser Ala Phe Asn Ala Leu Leu Lys Thr Leu Glu Glu Pro Pro Pro
86               130                 135                 140
87        His Val Leu Phe Val Phe Ala Thr Thr Glu Pro Glu Arg Met Pro Pro
88        145                 150                 155                 160
89        Thr Ile Leu Ser Arg Thr Gln His Phe Arg Phe Arg Arg Leu Thr Glu
90                       165                 170                 175
91        Glu Glu Ile Ala Phe Lys Leu Arg Arg Ile Leu Glu Ala Val Gly Arg
92                       180                 185                 190
93        Glu Ala Glu Glu Glu Ala Leu Leu Leu Leu Ala Arg Leu Ala Asp Gly
94                   195                 200                 205
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Input Set : N:\Crf3\RULE60\10671207.RAW.txt
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95      Ala Leu Arg Asp Ala Glu Ser Leu Leu Glu Arg Phe Leu Leu Leu Glu
96          210                 215                 220
97      Gly Pro Leu Thr Arg Lys Glu Val Glu Arg Ala Leu Gly Ser Pro Pro
98      225                 230                 235                 240
99      Gly Thr Gly Val Ala Glu Ile Ala Ala Ser Leu Ala Arg Gly Lys Thr
100                         245                 250                 255
101       Ala Glu Ala Leu Gly Leu Ala Arg Arg Leu Tyr Gly Glu Gly Tyr Ala
102                   260                 265                 270
103       Pro Arg Ser Leu Val Ser Gly Leu Leu Glu Val Phe Arg Glu Gly Leu
104                   275                 280                 285
105       Tyr Ala Ala Phe Gly Leu Ala Gly Thr Pro Leu Pro Ala Pro Pro Gln
106           290                 295                 300
107       Ala Leu Ile Ala Ala Met Thr Ala Leu Asp Glu Ala Met Glu Arg Leu
108       305                 310                 315                 320
109       Ala Arg Arg Ser Asp Ala Leu Ser Leu Glu Val Ala Leu Leu Glu Ala
110                   325                 330                 335
111       Gly Arg Ala Leu Ala Ala Glu Ala Leu Pro Gln Pro Thr Gly Ala Pro
112                   340                 345                 350
113       Ser Pro Glu Val Gly Pro Lys Pro Glu Ser Pro Pro Thr Pro Glu Pro
114                   355                 360                 365
115       Pro Arg Pro Glu Glu Ala Pro Asp Leu Arg Glu Arg Trp Arg Ala Phe
116           370                 375                 380
117       Leu Glu Ala Leu Arg Pro Thr Leu Arg Ala Phe Val Arg Glu Ala Arg
118       385                 390                 395                 400
119       Pro Glu Val Arg Glu Gly Gln Leu Cys Leu Ala Phe Pro Glu Asp Lys
120                   405                 410                 415
121       Ala Phe His Tyr Arg Lys Ala Ser Glu Gln Lys Val Arg Leu Leu Pro
122                   420                 425                 430
123       Leu Ala Gln Ala His Phe Gly Val Glu Glu Val Val Leu Val Leu Glu
124                   435                 440                 445
125       Gly Glu Lys Lys Ser Leu Ser Pro Arg Pro Arg Pro Ala Pro Pro Pro
126           450                 455                 460
127       Glu Ala Pro Ala Pro Pro Gly Pro Pro Glu Glu Val Glu Ala Glu
128       465                 470                 475                 480
129       Glu Ala Ala Glu Glu Ala Pro Glu Glu Ala Leu Arg Arg Val Val Arg
130                   485                 490                 495
131       Leu Leu Gly Gly Arg Val Leu Trp Val Arg Arg Pro Arg Thr Arg Glu
132                   500                 505                 510
133       Ala Pro Glu Glu Glu Pro Leu Ser Gln Asp Glu Ile Gly Gly Thr Gly
134           515                 520                 525
135       Ile
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137 <210> SEQ ID NO: 3
138 <211> LENGTH: 1590
139 <212> TYPE: DNA
140 <213> ORGANISM: Thermus thermophilus
141 <400> SEQUENCE: 3
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143   cacgtgaagg agcccctcct caaggccatc cgggagggga ggctcgccca ggcctacctc 120
144   ttctccgggc ccagggggcgt gggcaagacc accacggcga ggctcctcgc catggcggtg 180

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Input Set : N:\Crf3\RULE60\10671207.RAW.txt
Output Set: N:\CRF4\01212004\J671207.raw

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145       gggtgccagg gggaagaccc cccttgcggg gtctgccccc actgccaggc ggtgcagagg 240
146       ggcgcccacc cggacgtggt ggacattgac gccgccagca acaactccgt ggaggacgtg 300
147       cgggagctga gggaaaggat ccacctcgcc cccctctctg cccccaggaa ggtcttcatc 360
148       ctggacgagg cccacatgct ctccaaaagc gccttcaacg ccctcctcaa gaccctggag 420
149       gagcccccgc cccacgtcct cttcgtcttc gccaccaccg agcccgagag gatgcccccc 480
150       accatcctct cccgcaccca gcacttccgc ttccgccgcc tcacggagga ggagatcgcc 540
151       tttaagctcc ggcgcatcct ggaggccgtg gggcgggagg cggaggagga ggccctcctc 600
152       ctcctcgccc gcctggcgga cggggccctt agggacgcgg aaagcctcct ggagcgcttc 660
153       ctcctcctgg aaggcccccct cacccggaag gaggtggagc gcgccctagg ctcccccca 720
154       gggaccgggg tggccgagat cgccgcctcc ctcgcgaggg ggaaaacggc ggaggccctg 780
155       ggcctcgccc ggcgcctcta cggggaaggg tacgccccga ggagcctggt ctcgggcctt 840
156       ttggaggtgt tccgggaagg cctctacgcc gccttcggcc tcgcgggaac ccccccttccc 900
157       gccccgcccc aggccctgat cgccgccatg accgccctgg acgaggccat ggagcgcctc 960
158       gcccgccgct ccgacgcctt aagcctggag gtggccctcc tggaggcggg aagggccctg 1020
159       gccgccgagg ccctacccca gcccacgggc gctccttccc cagaggtcgg ccccaagccg 1080
160       gaaagccccc cgacccccgga accccccaagg cccgaggagg cgcccgacct gcgggagcgg 1140
161       tggcgggcct tcctcgaggc cctcaggccc accctacggg ccttcgtgcg ggaggcccgc 1200
162       ccggaggtcc gggaaggcca gctctgcctc gctttccccg aggacaaggc cttccactac 1260
163       cgcaaggcct cggaacagaa ggtgaggctc ctccccctgg cccaggccca tttcgggggtg 1320
164       gaggaggtcg tcctcgtcct ggagggagaa aaaaaagcc tgagcccaag gccccgcccg 1380
165       gccccacctc ctgaagcgcc cgcaccccccg ggccctcccg aggaggaggt agaggcggag 1440
166       gaagcggcgg aggaggcccc ggaggaggcc ttgaggcggg tggtccgcct cctggggggg 1500
167       cgggtgctct gggtgcggcg gcccaggacc cgggaggcgc cggaggagga accccctgagc 1560
168       caagacgaga taggggggtac tggtatataa                                 1590
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170 <210> SEQ ID NO: 4
171 <211> LENGTH: 464
172 <212> TYPE: PRT
173 <213> ORGANISM: Thermus thermophilus
174 <400> SEQUENCE: 4

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177       Val Gly Gln Glu His Val Lys Glu Pro Leu Leu Lys Ala Ile Arg Glu
178                       20                  25                  30
179       Gly Arg Leu Ala Gln Ala Tyr Leu Phe Ser Gly Pro Arg Gly Val Gly
180                   35                  40                  45
181       Lys Thr Thr Thr Ala Arg Leu Leu Ala Met Ala Val Gly Cys Gln Gly
182               50                  55                  60
183       Glu Asp Pro Pro Cys Gly Val Cys Pro His Cys Gln Ala Val Gln Arg
184       65                  70                  75                  80
185       Gly Ala His Pro Asp Val Val Asp Ile Asp Ala Ala Ser Asn Asn Ser
186                           85                  90                  95
187       Val Glu Asp Val Arg Glu Leu Arg Glu Arg Ile His Leu Ala Pro Leu
188                       100                 105                 110
189       Ser Ala Pro Arg Lys Val Phe Ile Leu Asp Glu Ala His Met Leu Ser
190                   115                 120                 125
191       Lys Ser Ala Phe Asn Ala Leu Leu Lys Thr Leu Glu Glu Pro Pro Pro
192               130                 135                 140
193       His Val Leu Phe Val Phe Ala Thr Thr Glu Pro Glu Arg Met Pro Pro
194       145                 150                 155                 160
```

```
195      Thr Ile Leu Ser Arg Thr Gln His Phe Arg Phe Arg Arg Leu Thr Glu
196                      165                 170                 175
197      Glu Glu Ile Ala Phe Lys Leu Arg Arg Ile Leu Glu Ala Val Gly Arg
198                      180                 185                 190
199      Glu Ala Glu Glu Glu Ala Leu Leu Leu Leu Ala Arg Leu Ala Asp Gly
200                      195                 200                 205
201      Ala Leu Arg Asp Ala Glu Ser Leu Leu Glu Arg Phe Leu Leu Leu Glu
202          210                 215                 220
203      Gly Pro Leu Thr Arg Lys Glu Val Glu Arg Ala Leu Gly Ser Pro Pro
204      225                 230                 235                 240
205      Gly Thr Gly Val Ala Glu Ile Ala Ala Ser Leu Ala Arg Gly Lys Thr
206                      245                 250                 255
207      Ala Glu Ala Leu Gly Leu Ala Arg Arg Leu Tyr Gly Glu Gly Tyr Ala
208                      260                 265                 270
209      Pro Arg Ser Leu Val Ser Gly Leu Leu Glu Val Phe Arg Glu Gly Leu
210                      275                 280                 285
211      Tyr Ala Ala Phe Gly Leu Ala Gly Thr Pro Leu Pro Ala Pro Pro Gln
212          290                 295                 300
213      Ala Leu Ile Ala Ala Met Thr Ala Leu Asp Glu Ala Met Glu Arg Leu
214      305                 310                 315                 320
215      Ala Arg Arg Ser Asp Ala Leu Ser Leu Glu Val Ala Leu Leu Glu Ala
216                      325                 330                 335
217      Gly Arg Ala Leu Ala Ala Glu Ala Leu Pro Gln Pro Thr Gly Ala Pro
218                      340                 345                 350
219      Ser Pro Glu Val Gly Pro Lys Pro Glu Ser Pro Pro Thr Pro Glu Pro
220                      355                 360                 365
221      Pro Arg Pro Glu Glu Ala Pro Asp Leu Arg Glu Arg Trp Arg Ala Phe
222          370                 375                 380
223      Leu Glu Ala Leu Arg Pro Thr Leu Arg Ala Phe Val Arg Glu Ala Arg
224      385                 390                 395                 400
225      Pro Glu Val Arg Glu Gly Gln Leu Cys Leu Ala Phe Pro Glu Asp Lys
226                      405                 410                 415
227      Ala Phe His Tyr Arg Lys Ala Ser Glu Gln Lys Val Arg Leu Leu Pro
228                      420                 425                 430
229      Leu Ala Gln Ala His Phe Gly Val Glu Glu Val Val Leu Val Leu Glu
230                      435                 440                 445
231      Gly Glu Lys Lys Lys Pro Glu Pro Lys Ala Pro Pro Gly Pro Thr Ser
232          450                 455                 460
234 <210> SEQ ID NO: 5
235 <211> LENGTH: 454
236 <212> TYPE: PRT
237 <213> ORGANISM: Thermus thermophilus
238 <400> SEQUENCE: 5
239      Met Ser Ala Leu Tyr Arg Arg Phe Arg Pro Leu Thr Phe Gln Glu Val
240        1               5                  10                  15
241      Val Gly Gln Glu His Val Lys Glu Pro Leu Leu Lys Ala Ile Arg Glu
242                       20                 25                  30
243      Gly Arg Leu Ala Gln Ala Tyr Leu Phe Ser Gly Pro Arg Gly Val Gly
244                       35                 40                  45
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/21/2004
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Input Set : **N:\Crf3\RULE60\10671207.RAW.txt**
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 2,3,5
Seq#:29; N Pos. 6,12,21
Seq#:30; N Pos. 7,10,19,22
Seq#:42; N Pos. 7,8,13,14
Seq#:43; N Pos. 8,9,17,18
Seq#:66; Xaa Pos. 3,5
Seq#:67; Xaa Pos. 4,7
Seq#:68; Xaa Pos. 3,5
Seq#:89; Xaa Pos. 79
Seq#:91; Xaa Pos. 47,57

VERIFICATION SUMMARY   DATE: 01/21/2004
PATENT APPLICATION: **US/10/671,207**   TIME: 12:30:58

Input Set : **N:\Crf3\RULE60\10671207.RAW.txt**
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L:405 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:408 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:411 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:414 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:769 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:772 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:775 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:778 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:787 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:790 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:793 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:796 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:799 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:907 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:910 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:913 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:916 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:919 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:928 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:931 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:934 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:937 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:940 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1141 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:1147 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:1148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1157 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67
L:1163 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67
L:1164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:1173 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68
L:1179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:1650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:64
L:1710 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:91
L:1715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:32
M:341 Repeated in SeqNo=91
L:5640 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5643 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193
L:5646 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:193
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